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By: Joyce Abriam Printed: Joyce Abriam

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: NEURON-ASSOCIATED PROTEINS

Serial No.: 09/857,826

Filing Date:

To Be Assigned

Examiner: To Be Assigned

Group Art Unit:

To Be Assigned

United States Patent and Trademark Office  
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Arlington, VA 22202

## SUBSTITUTE SUBMISSION UNDER 37 CFR § 1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The substitute diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). No new data has been added.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date:

9 Oct 2002

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PF-0637 USN



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AZIMZAI, Yalda

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<130> PF-0637 USN

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<150> PCT/US99/30408

<151> 1999-12-10

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His	Arg	Ser	Asn	His	Ser	Asn	Ala	Asp	Asn	Glu	Phe	Tyr	Phe	Arg
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Tyr	Pro	Lys	Glu	Ser	His	Ser	Val	Ala	Gln	Ala	Gly	Val	Gln	Arg
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Arg	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Ser	Pro	Pro	Arg	Trp	Ser	Phe
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Pro	Gln	Pro	Leu	Pro	Pro	Gly	Phe	Lys	Arg	Phe	Ser	Cys	Leu	Ser	
				110					115						120
Leu	Leu	Ser	Ser	Trp	Asp	Tyr	Ser	Leu	Glu	Ser	Val	Phe	Pro	Leu	
				125					130						135
Ile	Ala	Glu	Gly	Gln	Arg	Ser	Ala	Thr	Ser	Gln	Ala	Met	His	Gln	
				140					145						150
Leu	Phe	Gly	Leu	Phe	Val	Thr	Leu	Met	Phe	Ala	Ser	Val	Gly	Gly	
				155					160						165
Gly	Leu	Gly	Gly	Leu	Leu	Leu	Lys	Leu	Pro	Phe	Leu	Asp	Ser	Pro	
				170					175						180
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Trp	Arg	Ala													

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Glu	Glu	Lys	Arg	Leu	Met	Val	Glu	Leu	His	Asn	Leu	Tyr	Arg	Ala	
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Gln	Val	Ser	Pro	Thr	Ala	Ser	Asp	Met	Leu	His	Met	Arg	Trp	Asp	
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Glu	Glu	Leu	Ala	Ala	Phe	Ala	Lys	Ala	Tyr	Ala	Arg	Gln	Cys	Val	
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Trp	Gly	His	Asn	Lys	Glu	Arg	Gly	Arg	Arg	Gly	Glu	Asn	Leu	Phe	
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Ala	Ile	Thr	Asp	Glu	Gly	Met	Asp	Val	Pro	Leu	Ala	Met	Glu	Glu	
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Trp	His	His	Glu	Arg	Glu	His	Tyr	Asn	Leu	Ser	Ala	Ala	Thr	Cys	
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Ser	Pro	Gly	Gln	Met	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	
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Lys	Thr	Glu	Arg	Ile	Gly	Cys	Gly	Ser	His	Phe	Cys	Glu	Lys	Leu	
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Gln	Gly	Val	Glu	Glu	Thr	Asn	Ile	Glu	Leu	Leu	Val	Cys	Asn	Tyr	
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Glu	Pro	Pro	Gly	Asn	Val	Lys	Gly	Lys	Arg	Pro	Tyr	Gln	Glu	Gly	
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Thr	Pro	Cys	Ser	Gln	Cys	Pro	Ser	Gly	Tyr	His	Cys	Lys	Asn	Ser	
				185					190						195
Leu	Cys	Glu	Pro	Ile	Gly	Ser	Pro	Glu	Asp	Ala	Gln	Asp	Leu	Pro	

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Tyr Leu Val Thr Glu Ala Pro Ser Phe	Arg Ala Thr Glu Ala Ser	
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Asp Ser Arg Lys Met Gly Thr Pro Ser	Ser Leu Ala Thr Gly Ile	
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Thr Glu Val Pro Ser Ile Leu Ala Ala	His Ser Leu Pro Ser Leu	
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Asp Glu Glu Pro Val Thr Phe Pro Lys	Ser Thr His Val Pro Ile	
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Pro Lys Ser Ala Asp Lys Val Thr Asp	Lys Thr Lys Val Pro Ser	
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Arg Ser Pro Glu Asn Ser Leu Asp Pro	Lys Met Ser Leu Thr Gly	
335	340	345
Ala Arg Glu Leu Leu Pro His Ala Gln	Glu Glu Ala Glu Ala Glu	
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Ala Glu Leu Pro Pro Ser Ser Glu Val	Leu Ala Ser Val Phe Pro	
365	370	375
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380	385	390
Gly His Thr Ser Ser Lys Ser Leu Pro	Asn Phe Pro Asn Thr Ser	
395	400	405
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Ser Leu Pro Gly Ala Glu Gly Pro Asp	Lys Pro Ser Val Val Ser	
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35 40 45	
Gly Met Lys Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro	
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Leu	His	Pro	Ser	Trp	Ala	Tyr	Val	Asp	Pro	Ser	Ser	Ser	Ser	Ser	
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Phe	Ser	Trp	Asp	Asp	Gln	Lys	Val	Arg	Arg	Val	Phe	Val	Arg	Lys	
				95					100					105	
Val	Tyr	Thr	Ile	Leu	Leu	Ile	Gln	Leu	Leu	Val	Thr	Leu	Ala	Val	
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Val	Ala	Leu	Phe	Thr	Phe	Cys	Asp	Pro	Val	Lys	Asp	Tyr	Val	Gln	
				125					130					135	
Ala	Asn	Pro	Gly	Trp	Tyr	Trp	Ala	Ser	Tyr	Ala	Val	Phe	Phe	Ala	
				140					145					150	
Thr	Tyr	Leu	Thr	Leu	Ala	Cys	Cys	Ser	Gly	Pro	Arg	Arg	His	Phe	
				155					160					165	
Pro	Trp	Asn	Leu	Ile	Leu	Leu	Thr	Val	Phe	Thr	Leu	Ser	Met	Ala	
				170					175					180	
Tyr	Leu	Thr	Gly	Met	Leu	Ser	Ser	Tyr	Tyr	Asn	Thr	Thr	Ser	Val	
				185					190					195	
Leu	Leu	Cys	Leu	Gly	Ile	Thr	Ala	Leu	Val	Cys	Leu	Ser	Val	Thr	
				200					205					210	
Val	Phe	Ser	Phe	Gln	Thr	Lys	Phe	Asp	Phe	Thr	Ser	Cys	Gln	Gly	
				215					220					225	
Val	Leu	Phe	Val	Leu	Leu	Met	Thr	Leu	Phe	Phe	Ser	Gly	Leu	Ile	
				230					235					240	
Leu	Ala	Ile	Leu	Leu	Pro	Phe	Gln	Tyr	Val	Pro	Trp	Leu	His	Ala	
				245					250					255	
Val	Tyr	Ala	Ala	Leu	Gly	Ala	Gly	Val	Phe	Thr	Leu	Phe	Leu	Ala	
				260					265					270	
Leu	Asp	Thr	Gln	Leu	Leu	Met	Gly	Asn	Arg	Arg	His	Ser	Leu	Ser	
				275					280					285	
Pro	Glu	Glu	Tyr	Ile	Phe	Gly	Ala	Leu	Asn	Ile	Tyr	Leu	Asp	Ile	
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Ser	Glu	Ser	Leu	Asp	Glu	Glu	Glu	Lys	Leu	Glu	Leu	Gln	Arg	Arg	
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Leu	Glu	Ala	Gln	Asn	Gln	Glu	Arg	Arg	Lys	Ser	Lys	Ser	Gly	Ala	

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Gly	Lys	Gly	Lys	Leu	Thr	Arg	Ser	Leu	Ala	Val	Cys	Glu	Glu	Ser
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				20					25					30
Cys	Ala	Val	Arg	Ala	His	Gly	Asp	Pro	Val	Ser	Glu	Ser	Phe	Val
				35					40					45
Gln	Arg	Val	Tyr	Gln	Pro	Phe	Leu	Thr	Thr	Cys	Asp	Gly	His	Arg
				50					55					60
Ala	Cys	Ser	Thr	Tyr	Arg	Thr	Ile	Tyr	Arg	Thr	Ala	Tyr	Arg	Arg
				65					70					75
Ser	Pro	Gly	Leu	Ala	Pro	Ala	Arg	Pro	Arg	Tyr	Ala	Cys	Cys	Pro
				80					85					90
Gly	Trp	Lys	Arg	Thr	Ser	Gly	Leu	Pro	Gly	Ala	Cys	Gly	Ala	Ala
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Ile	Cys	Gln	Pro	Pro	Cys	Arg	Asn	Gly	Gly	Ser	Cys	Val	Gln	Pro
				110					115					120
Gly	Arg	Cys	Arg	Cys	Pro	Ala	Gly	Trp	Arg	Gly	Asp	Thr	Cys	Gln
				125					130					135
Ser	Asp	Val	Asp	Glu	Cys	Ser	Ala	Arg	Arg	Gly	Gly	Cys	Pro	Gln
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Arg	Cys	Val	Asn	Thr	Ala	Gly	Ser	Tyr	Trp	Cys	Gln	Cys	Trp	Glu
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Gly	His	Ser	Leu	Ser	Ala	Asp	Gly	Thr	Leu	Cys	Val	Pro	Lys	Gly
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				185					190					195
Met	Lys	Glu	Glu	Val	Gln	Arg	Leu	Gln	Ser	Arg	Val	Asp	Leu	Leu
				200					205					210
Glu	Glu	Lys	Leu	Gln	Leu	Val	Leu	Ala	Pro	Leu	His	Ser	Leu	Ala
				215					220					225
Ser	Gln	Ala	Leu	Glu	His	Gly	Leu	Pro	Asp	Pro	Gly	Ser	Leu	Leu
				230					235					240
Val	His	Ser	Phe	Gln	Gln	Leu	Gly	Arg	Ile	Asp	Ser	Leu	Ser	Glu
				245					250					255
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35 40 45  
Ile Ser Pro Glu Asp Leu Pro Arg Gln Val Glu Leu Leu Asp Ala  
50 55 60  
Val Ser Gln Ala Ala Gln Lys Tyr Glu Ala Leu Tyr Met Gly Thr  
65 70 75  
Leu Pro Val Thr Lys Ala Met Gly Met Asp Val Leu Asn Glu Ala  
80 85 90  
Ile Gly Thr Leu Thr Ala Arg Gly Asp Arg Asn Ala Trp Val Pro  
95 100 105  
Thr Met Leu Ser Val Ser Asp Ser Leu Met Thr Ala His Pro Ile  
110 115 120  
Gln Ala Glu Ala Ser Thr Glu Glu Glu Pro Leu Trp Gln Cys Pro  
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140 145 150  
Phe Gly Leu Ile Ala Asp Leu Gly Arg Gln Ser Phe Gln Cys Ala  
155 160 165  
Ala Phe Trp Cys Gln Pro His Ala Gly Gly Leu Ser Glu Ala Val  
170 175 180  
Gln Ala Ala Cys Met Val Gln Tyr Gln Lys Cys Leu Val Ala Ser  
185 190 195  
Ala Ala Arg Gly Lys Ala Trp Gly Ala Gln Ala Arg Ala Arg Leu  
200 205 210  
Arg Leu Lys Arg Thr Ser Ser Met Asp Ser Pro Gly Gly Pro Leu  
215 220 225  
Pro Leu Pro Leu Leu Lys Gly Gly Val Gly Gly Ala Gly Ala Thr  
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Val	Val	Arg	Gly	Ser	Gly	His	Val	Thr	Val	Phe	Gly	Leu	Ser	Asn
				35				40						45
Lys	Phe	Glu	Ser	Glu	Phe	Pro	Ser	Ser	Leu	Thr	Gly	Lys	Val	Ala
				50				55						60
Pro	Glu	Glu	Phe	Lys	Ala	Ser	Ile	Asn	Arg	Val	Asn	Ser	Cys	Leu
				65				70						75
Lys	Lys	Asn	Leu	Pro	Val	Asn	Val	Arg	Trp	Leu	Leu	Cys	Gly	Cys
				80				85						90
Leu	Cys	Cys	Cys	Cys	Thr	Leu	Gly	Cys	Ser	Met	Trp	Pro	Val	Ile
				95				100						105
Cys	Leu	Ser	Lys	Arg	Thr	Arg	Arg	Ser	Ile	Glu	Lys	Leu	Leu	Glu
				110				115						120
Trp	Glu	Asn	Asn	Arg	Leu	Tyr	His	Lys	Leu	Cys	Leu	His	Trp	Arg
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Leu	Ser	Lys	Arg	Lys	Cys	Glu	Thr	Asn	Asn	Met	Met	Glu	Tyr	Val
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				20					25					30
Tyr	Pro	Met	Gln	Ala	Tyr	Val	Asp	Pro	Ser	Asn	Pro	Asn	Ala	Gly
				35				40						45
Lys	Val	Leu	Leu	Pro	Thr	Pro	Ser	Met	Asp	Pro	Val	Cys	Ser	Pro
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Ala	Pro	Tyr	Asp	His	Ala	Gln	Pro	Leu	Val	Gly	His	Ser	Thr	Glu
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Pro	Leu	Ser	Ala	Pro	Pro	Pro	Val	Pro	Val	Val	Pro	His	Val	Ala
				80				85						90
Ala	Pro	Val	Glu	Val	Ser	Ser	Ser	Gln	Tyr	Val	Ala	Gln	Ser	Asp
				95				100						105
Gly	Val	Val	His	Gln	Asp	Ser	Ser	Val	Ala	Val	Leu	Pro	Val	Pro
				110				115						120



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Ala	Pro	Gly	Pro	Val	Gln	Gly	Gln	Asn	Tyr	Ser	Val	Trp	Asp	Ser
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Asn	Gln	Gln	Ser	Val	Ser	Val	Gln	Gln	Gln	Tyr	Ser	Pro	Ala	Gln
				140					145					150
Ser	Gln	Ala	Thr	Ile	Tyr	Tyr	Gln	Gly	Gln	Thr	Cys	Pro	Thr	Val
				155					160					165
Tyr	Gly	Val	Thr	Ser	Pro	Tyr	Ser	Gln	Thr	Thr	Pro	Pro	Ile	Val
				170					175					180
Gln	Ser	Tyr	Ala	Gln	Pro	Ser	Leu	Gln	Tyr	Ile	Gln	Gly	Gln	Gln
				185					190					195
Ile	Phe	Thr	Ala	His	Pro	Gln	Gly	Val	Val	Val	Gln	Pro	Ala	Ala
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Ala	Val	Thr	Thr	Ile	Val	Ala	Pro	Gly	Gln	Pro	Gln	Pro	Leu	Gln
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Pro	Ser	Glu	Met	Val	Val	Thr	Asn	Asn	Leu	Leu	Asp	Leu	Pro	Pro
				230					235					240
Pro	Ser	Pro	Pro	Lys	Pro	Lys	Thr	Ile	Val	Leu	Pro	Pro	Asn	Trp
				245					250					255
Lys	Thr	Ala	Arg	Asp	Pro	Glu	Gly	Lys	Ile	Tyr	Tyr	Tyr	His	Val
				260					265					270
Ile	Thr	Arg	Gln	Thr	Gln	Trp	Asp	Pro	Pro	Thr	Trp	Glu	Ser	Pro
				275					280					285
Gly	Asp	Asp	Ala	Ser	Leu	Glu	His	Glu	Ala	Glu	Met	Asp	Leu	Gly
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Thr	Pro	Thr	Tyr	Asp	Glu	Asn	Pro	Met	Lys	Ala	Ser	Lys	Lys	Pro
				305					310					315
Lys	Thr	Ala	Glu	Ala	Asp	Thr	Ser	Ser	Glu	Leu	Ala	Lys	Lys	Ser
				320					325					330
Lys	Glu	Val	Phe	Arg	Lys	Glu	Met	Ser	Gln	Phe	Ile	Val	Gln	Cys
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Leu	Asn	Pro	Tyr	Arg	Lys	Pro	Asp	Cys	Lys	Val	Gly	Arg	Ile	Thr
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Thr	Thr	Glu	Asp	Phe	Lys	His	Leu	Ala	Arg	Lys	Leu	Thr	His	Gly
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Val	Met	Asn	Lys	Glu	Leu	Lys	Tyr	Cys	Lys	Asn	Pro	Glu	Asp	Leu
				380					385					390
Glu	Cys	Asn	Glu	Asn	Val	Lys	His	Lys	Thr	Lys	Glu	Tyr	Ile	Lys
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Leu Ala Ala Ala	Ala Ala Gly Pro Asn	Arg Cys Asp Thr Ile	Tyr
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Gln Gly Phe Ala	Glu Cys Leu Ile Arg	Leu Gly Asp Ser Met	Gly
	50	55	60
Arg Gly Gly Glu	Leu Glu Thr Ile Cys	Arg Ser Trp Asn Asp	Phe
	65	70	75
His Ala Cys Ala	Ser Gln Val Leu Ser	Gly Cys Pro Glu Glu	Ala
	80	85	90
Ala Ala Val Trp	Glu Ser Leu Gln Gln	Glu Ala Arg Gln Ala	Pro
	95	100	105
Arg Pro Asn Asn	Leu His Thr Leu Cys	Gly Ala Pro Val His	Val
	110	115	120
Arg Glu Arg Gly	Thr Gly Ser Lys Thr	Asn Gln Glu Thr Leu	Arg
	125	130	135
Ala Thr Ala Pro	Ala Leu Pro Met Ala	Pro Ala Pro Pro Leu	Leu
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<223> Incyte ID No: 2253519CD1

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Met Thr Val Ala	Gly Leu Lys Leu Leu Arg	Ser Ala Phe Cys Cys
1	5	10
Pro Pro Gln Gln	Tyr Leu Thr Leu Ala Phe	Thr Val Leu Leu Phe
	20	25
His Phe Asp Tyr	Pro Arg Leu Ser Gln Gly	Phe Leu Leu Asp Tyr
	35	40
Phe Leu Met Ser	Leu Leu Cys Ser Lys Leu	Trp Asp Leu Leu Tyr
	50	55
Lys Leu Arg Phe	Val Leu Thr Tyr Ile Ala	Pro Trp Gln Ile Thr
	65	70
Trp Gly Ser Ala	Phe His Ala Phe Ala Gln	Pro Phe Ala Val Pro
	80	85
His Ser Ala Met	Leu Phe Val Gln Ala Leu	Leu Ser Gly Leu Phe
	95	100
Ser Thr Pro Leu	Asn Pro Leu Leu Gly Ser	Ala Val Phe Ile Met
	110	115
Ser Tyr Ala Arg	Pro Leu Lys Phe Trp Glu	Arg Asp Tyr Asn Thr
	125	130
Lys Arg Val Asp	His Ser Asn Thr Arg Leu	Val Thr Gln Leu Asp
	140	145
Arg Asn Pro Gly	Ala Asp Asp Asn Asn Leu	Asn Ser Ile Phe Tyr
	155	160
		165

Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp Leu	170	175	180
Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val	185	190	195
Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val	200	205	210
Gly Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg	215	220	225
Gly Thr Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly	230	235	240
Val Glu Glu Asp Glu Gly Cys Cys Cys Cys Glu Pro Gly His Leu	245	250	255
Pro Arg Val Leu Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu	260	265	270
Ala Trp Glu Val Thr Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser	275	280	285
Ile Ser Asp Asn Asn Ala Ala Ser Met Leu Gln Val Phe Asp Leu	290	295	300
Arg Lys Ile Leu Ile Thr Tyr Tyr Val Lys Ser Ile Ile Tyr Tyr	305	310	315
Val Ser Arg Ser Pro Lys Leu Glu Val Trp Leu Ser His Glu Gly	320	325	330
Ile Thr Ala Ala Leu Arg Pro Val Arg Val Pro Gly Tyr Ala Asp	335	340	345
Ser Asp Pro Thr Phe Ser Leu Ser Val Asp Glu Asp Tyr Asp Leu	350	355	360
Arg Leu Ser Gly Leu Ser Leu Pro Ser Phe Cys Ala Val His Leu	365	370	375
Glu Trp Ile Gln Tyr Cys Ala Ser Arg Arg Thr Arg Pro Val Asp	380	385	390
Gln Asp Trp Asn Ser Pro Leu Val Thr Leu Cys Phe Gly Leu Cys	395	400	405
Val Leu Gly Arg Arg Ala Leu Gly Thr Ala Ser His Ser Met Ser	410	415	420
Ala Ser Leu Glu Pro Phe Leu Tyr Gly Leu His Ala Leu Phe Lys	425	430	435
Gly Asp Phe Arg Ile Thr Ser Pro Arg Asp Glu Trp Val Phe Ala	440	445	450
Asp Met Asp Leu Leu His Arg Val Val Ala Pro Gly Val Arg Met	455	460	465
Ala Leu Lys Leu His Gln Asp His Phe Thr Ser Pro Asp Glu Tyr	470	475	480
Glu Glu Pro Ala Ala Leu Tyr Asp Ala Ile Ala Ala Asn Glu Glu	485	490	495
Arg Leu Val Ile Ser His Glu Gly Asp Pro Ala Trp Arg Ser Ala	500	505	510
Ile Leu Ser Asn Thr Pro Ser Leu Leu Ala Leu Arg His Val Leu	515	520	525
Asp Asp Ala Ser Asp Glu Tyr Lys Ile Ile Met Leu Asn Arg Arg	530	535	540
His Leu Ser Phe Arg Val Ile Lys Val Asn Arg Glu Cys Val Arg	545	550	555
Gly Leu Trp Ala Gly Gln Gln Gln Glu Leu Val Phe Leu Arg Asn	560	565	570

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Arg	Asn	Pro	Glu	Arg	Gly	Ser	Ile	Gln	Asn	Ala	Lys	Gln	Ala	Leu
				575					580					585
Arg	Asn	Met	Ile	Asn	Ser	Ser	Cys	Asp	Gln	Pro	Leu	Gly	Tyr	Pro
				590					595					600
Ile	Tyr	Val	Ser	Pro	Leu	Thr	Thr	Ser	Leu	Ala	Gly	Ser	His	Pro
				605					610					615
Gln	Leu	Arg	Ala	Leu	Trp	Gly	Gly	Pro	Ile	Ser	Leu	Gly	Ala	Ile
				620					625					630
Ala	His	Trp	Leu	Leu	Arg	Thr	Trp	Glu	Arg	Leu	His	Lys	Gly	Cys
				635					640					645
Gly	Ala	Gly	Cys	Asn	Ser	Gly	Gly	Asn	Val	Asp	Asp	Ser	Asp	Cys
				650					655					660
Ser	Gly	Gly	Gly	Gly	Leu	Thr	Ser	Leu	Ser	Asn	Asn	Pro	Pro	Val
				665					670					675
Ala	His	Pro	Thr	Pro	Glu	Asn	Thr	Ala	Gly	Asn	Gly	Asp	Gln	Pro
				680					685					690
Leu	Pro	Pro	Gly	Pro	Gly	Trp	Gly	Pro	Arg	Ser	Ser	Leu	Ser	Gly
				695					700					705
Ser	Gly	Asp	Gly	Arg	Pro	Pro	Pro	Leu	Leu	Gln	Trp	Pro	Pro	Pro
				710					715					720
Arg	Leu	Pro	Gly	Pro	Pro	Pro	Ala	Ser	Pro	Ile	Pro	Thr	Glu	Gly
				725					730					735
Pro	Arg	Thr	Ser	Arg	Pro	Pro	Gly	Pro	Gly	Leu	Leu	Ser	Ser	Glu
				740					745					750
Gly	Pro	Ser	Gly	Lys	Trp	Ser	Leu	Gly	Gly	Arg	Lys	Gly	Leu	Gly
				755					760					765
Gly	Ser	Asp	Gly	Glu	Pro	Ala	Ser	Gly	Ser	Pro	Lys	Gly	Gly	Thr
				770					775					780
Pro	Lys	Ser	Gln	Val	Arg	His	Leu	Trp	Glu	Gly	Trp	Val	Pro	Glu
				785					790					795

Gly

<210> 11

<211> 854

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2888437CD1

<400> 11

Met	Lys	Cys	Leu	Tyr	Tyr	Leu	Tyr	Ala	Ser	Leu	Asp	Pro	Asn	Ala
1				5					10					15
Val	Lys	Ala	Leu	Asn	Glu	Met	Trp	Lys	Cys	Gln	Asn	Met	Leu	Arg
				20					25					30
Ile	His	Val	Arg	Glu	Leu	Leu	Asp	Leu	His	Lys	Gln	Pro	Thr	Ser
				35					40					45
Glu	Ala	Asn	Cys	Ser	Ala	Met	Phe	Gly	Lys	Leu	Met	Thr	Ile	Ala
				50					55					60
Lys	Asn	Leu	Pro	Asp	Pro	Gly	Lys	Ala	Gln	Asp	Phe	Val	Lys	Lys
				65					70					75
Phe	Asn	Gln	Val	Leu	Gly	Asp	Asp	Glu	Lys	Leu	Arg	Ser	Gln	Leu

	80	85	90
Glu Leu Leu Ile Ser Pro Thr Cys Ser Cys Lys Gln Ala Asp Ile	95	100	105
Cys Val Arg Glu Ile Ala Arg Lys Leu Ala Asn Pro Lys Gln Pro	110	115	120
Thr Asn Pro Phe Leu Glu Met Val Lys Phe Leu Leu Glu Arg Ile	125	130	135
Ala Pro Val His Ile Asp Ser Glu Ala Ile Ser Ala Leu Val Lys	140	145	150
Leu Met Asn Lys Ser Ile Glu Gly Thr Ala Asp Asp Glu Glu Glu	155	160	165
Gly Val Ser Pro Asp Thr Ala Ile Arg Ser Gly Leu Glu Leu Leu	170	175	180
Lys Val Leu Ser Phe Thr His Pro Thr Ser Phe His Ser Ala Glu	185	190	195
Thr Tyr Glu Ser Leu Leu Gln Cys Leu Arg Met Glu Asp Asp Lys	200	205	210
Val Ala Glu Ala Ala Ile Gln Ile Phe Arg Asn Thr Gly His Lys	215	220	225
Ile Glu Thr Asp Leu Pro Gln Ile Arg Ser Thr Leu Ile Pro Ile	230	235	240
Leu His Gln Lys Ala Lys Arg Gly Thr Pro His Gln Ala Lys Gln	245	250	255
Ala Val His Cys Ile His Ala Ile Phe Thr Asn Lys Glu Val Gln	260	265	270
Leu Ala Gln Ile Phe Glu Pro Leu Ser Arg Ser Leu Asn Ala Asp	275	280	285
Val Pro Glu Gln Leu Ile Thr Pro Leu Val Ser Leu Gly His Ile	290	295	300
Ser Met Leu Ala Pro Asp Gln Phe Ala Ser Pro Met Lys Ser Val	305	310	315
Val Ala Asn Phe Ile Val Lys Asp Leu Leu Met Asn Asp Arg Ser	320	325	330
Thr Gly Glu Lys Asn Gly Lys Leu Trp Ser Pro Asp Glu Glu Val	335	340	345
Ser Pro Glu Val Leu Ala Lys Val Gln Ala Ile Lys Leu Leu Val	350	355	360
Arg Trp Leu Leu Gly Met Lys Asn Asn Gln Ser Lys Ser Ala Asn	365	370	375
Ser Thr Leu Arg Leu Leu Ser Ala Met Leu Val Ser Glu Gly Asp	380	385	390
Leu Thr Glu Gln Lys Arg Ile Ser Lys Ser Asp Met Ser Arg Leu	395	400	405
Arg Leu Ala Ala Gly Ser Ala Ile Met Lys Leu Ala Gln Glu Pro	410	415	420
Cys Tyr His Glu Ile Ile Thr Pro Glu Gln Phe Gln Leu Cys Ala	425	430	435
Leu Val Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln Ile Phe Ala	440	445	450
Gln Lys Leu His Lys Ala Leu Val Lys Leu Leu Leu Pro Leu Glu	455	460	465
Tyr Met Ala Ile Phe Ala Leu Cys Ala Lys Asp Pro Val Lys Glu	470	475	480
Arg Arg Ala His Ala Arg Gln Cys Leu Leu Lys Asn Ile Ser Ile			

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	485		490		495
Arg Arg Glu Tyr	Ile Lys Gln Asn Pro	Met Ala Thr Glu Lys	Leu		
	500		505		510
Leu Ser Leu Leu	Pro Glu Tyr Val Val	Pro Tyr Met Ile His	Leu		
	515		520		525
Leu Ala His Asp	Pro Asp Phe Thr Arg	Ser Gln Asp Val Asp	Gln		
	530		535		540
Leu Arg Asp Ile	Lys Glu Cys Leu Trp	Phe Met Leu Glu Val	Leu		
	545		550		555
Met Thr Lys Asn	Glu Asn Asn Ser His	Ala Phe Met Lys Lys	Met		
	560		565		570
Ala Glu Asn Ile	Lys Leu Thr Arg Asp	Ala Gln Ser Pro Asp	Glu		
	575		580		585
Ser Lys Thr Asn	Glu Lys Leu Tyr Thr	Val Cys Asp Val Ala	Leu		
	590		595		600
Cys Val Ile Asn	Ser Lys Ser Ala Leu	Cys Asn Ala Asp Ser	Pro		
	605		610		615
Lys Asp Pro Val	Leu Pro Met Lys Phe	Phe Thr Gln Pro Glu	Lys		
	620		625		630
Asp Phe Cys Asn	Asp Lys Ser Tyr Ile	Ser Glu Glu Thr Arg	Val		
	635		640		645
Leu Leu Leu Thr	Gly Lys Pro Lys Pro	Ala Gly Val Leu Gly	Ala		
	650		655		660
Val Asn Lys Pro	Leu Ser Ala Thr Gly	Arg Lys Pro Tyr Val	Arg		
	665		670		675
Ser Thr Gly Thr	Glu Thr Gly Ser Asn	Ile Asn Val Asn Ser	Glu		
	680		685		690
Leu Asn Pro Ser	Thr Gly Asn Arg Ser	Arg Glu Gln Ser Ser	Glu		
	695		700		705
Ala Ala Glu Thr	Gly Val Ser Glu Asn	Glu Glu Asn Pro Val	Arg		
	710		715		720
Ile Ile Ser Val	Thr Pro Val Lys Asn	Ile Asp Pro Val Lys	Asn		
	725		730		735
Lys Glu Ile Asn	Ser Asp Gln Ala Thr	Gln Gly Asn Ile Ser	Ser		
	740		745		750
Asp Arg Gly Lys	Lys Arg Thr Val Thr	Ala Ala Gly Ala Glu	Asn		
	755		760		765
Ile Gln Gln Lys	Thr Asp Glu Lys Val	Asp Glu Ser Gly Pro	Pro		
	770		775		780
Ala Pro Ser Lys	Pro Arg Arg Gly Arg	Arg Pro Lys Ser Glu	Ser		
	785		790		795
Gln Gly Asn Ala	Thr Lys Asn Asp Asp	Leu Asn Lys Pro Ile	Asn		
	800		805		810
Lys Gly Arg Lys	Arg Ala Ala Val Gly	Gln Glu Ser Pro Gly	Gly		
	815		820		825
Leu Glu Ala Gly	Asn Ala Lys Ala Pro	Lys Leu Gln Asp Leu	Ala		
	830		835		840
Lys Lys Ala Ala	Pro Ala Glu Arg Gln	Ile Asp Leu Gln Arg			
	845		850		

<210> 12

<211> 856

<212> PRT

<213> Homo sapiens

PF-0637 USN

<220>

<221> misc\_feature

<223> Incyte ID No: 3201753CD1

<400> 12

Met	Arg	Gly	Ile	Phe	Ile	Lys	His	Val	Leu	Glu	Asp	Ser	Pro	Ala	
1				5					10					15	
Gly	Lys	Asn	Gly	Thr	Leu	Lys	Pro	Gly	Asp	Arg	Ile	Val	Glu	Val	
				20					25					30	
Asp	Gly	Met	Asp	Leu	Arg	Asp	Ala	Ser	His	Glu	Gln	Ala	Val	Glu	
				35					40					45	
Ala	Ile	Arg	Lys	Ala	Gly	Asn	Pro	Val	Val	Phe	Met	Val	Gln	Ser	
				50					55					60	
Ile	Ile	Asn	Arg	Pro	Arg	Ala	Pro	Ser	Gln	Ser	Glu	Ser	Glu	Pro	
				65					70					75	
Glu	Lys	Ala	Pro	Leu	Cys	Ser	Val	Pro	Pro	Pro	Pro	Pro	Ser	Ala	
				80					85					90	
Phe	Ala	Glu	Met	Gly	Ser	Asp	His	Thr	Gln	Ser	Ser	Ala	Ser	Lys	
				95					100					105	
Ile	Ser	Gln	Asp	Val	Asp	Lys	Glu	Asp	Glu	Phe	Gly	Tyr	Ser	Trp	
				110					115					120	
Lys	Asn	Ile	Arg	Glu	Arg	Tyr	Gly	Thr	Leu	Thr	Gly	Glu	Leu	His	
				125					130					135	
Met	Ile	Glu	Leu	Glu	Lys	Gly	His	Ser	Gly	Leu	Gly	Leu	Ser	Leu	
				140					145					150	
Ala	Gly	Asn	Lys	Asp	Arg	Ser	Arg	Met	Ser	Val	Phe	Ile	Val	Gly	
				155					160					165	
Ile	Asp	Pro	Asn	Gly	Ala	Ala	Gly	Lys	Asp	Gly	Arg	Leu	Gln	Ile	
				170					175					180	
Ala	Asp	Glu	Leu	Leu	Glu	Ile	Asn	Gly	Gln	Ile	Leu	Tyr	Gly	Arg	
				185					190					195	
Ser	His	Gln	Asn	Ala	Ser	Ser	Ile	Ile	Lys	Cys	Ala	Pro	Ser	Lys	
				200					205					210	
Val	Lys	Ile	Ile	Phe	Ile	Arg	Asn	Lys	Asp	Ala	Val	Asn	Gln	Met	
				215					220					225	
Ala	Val	Cys	Pro	Gly	Asn	Ala	Val	Glu	Pro	Leu	Pro	Ser	Asn	Ser	
				230					235					240	
Glu	Asn	Leu	Gln	Asn	Lys	Glu	Thr	Glu	Pro	Thr	Val	Thr	Thr	Ser	
				245					250					255	
Asp	Ala	Ala	Val	Asp	Leu	Ser	Ser	Phe	Lys	Asn	Val	Gln	His	Leu	
				260					265					270	
Glu	Leu	Pro	Lys	Asp	Gln	Gly	Gly	Leu	Gly	Ile	Ala	Ile	Ser	Glu	
				275					280					285	
Glu	Asp	Thr	Leu	Ser	Gly	Val	Ile	Ile	Lys	Ser	Leu	Thr	Glu	His	
				290					295					300	
Gly	Val	Ala	Ala	Thr	Asp	Gly	Arg	Leu	Lys	Val	Gly	Asp	Gln	Ile	
				305					310					315	
Leu	Ala	Val	Asp	Asp	Glu	Ile	Val	Val	Gly	Tyr	Pro	Ile	Glu	Lys	
				320					325					330	
Phe	Ile	Ser	Leu	Leu	Lys	Thr	Ala	Lys	Met	Thr	Val	Lys	Leu	Thr	
				335					340					345	
Ile	His	Ala	Glu	Asn	Pro	Asp	Ser	Gln	Ala	Val	Pro	Ser	Ala	Ala	
				350					355					360	

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Gly	Ala	Ala	Ser	Gly	Glu	Lys	Lys	Asn	Ser	Ser	Gln	Ser	Leu	Met	365	370	375
Val	Pro	Gln	Ser	Gly	Ser	Pro	Glu	Pro	Glu	Ser	Ile	Arg	Asn	Thr	380	385	390
Ser	Arg	Ser	Ser	Thr	Pro	Ala	Ile	Phe	Ala	Ser	Asp	Pro	Ala	Thr	395	400	405
Cys	Pro	Ile	Ile	Pro	Gly	Cys	Glu	Thr	Thr	Ile	Glu	Ile	Ser	Lys	410	415	420
Gly	Arg	Thr	Gly	Leu	Gly	Leu	Ser	Ile	Val	Gly	Gly	Ser	Asp	Thr	425	430	435
Leu	Leu	Gly	Ala	Ile	Ile	Ile	His	Glu	Val	Tyr	Glu	Glu	Gly	Ala	440	445	450
Ala	Cys	Lys	Asp	Gly	Arg	Leu	Trp	Ala	Gly	Asp	Gln	Ile	Leu	Glu	455	460	465
Val	Asn	Gly	Ile	Asp	Leu	Arg	Lys	Ala	Thr	His	Asp	Glu	Ala	Ile	470	475	480
Asn	Val	Leu	Arg	Gln	Thr	Pro	Gln	Arg	Val	Arg	Leu	Thr	Leu	Tyr	485	490	495
Arg	Asp	Glu	Ala	Pro	Tyr	Lys	Glu	Glu	Glu	Val	Cys	Asp	Thr	Leu	500	505	510
Thr	Ile	Glu	Leu	Gln	Lys	Lys	Pro	Gly	Lys	Gly	Leu	Gly	Leu	Ser	515	520	525
Ile	Val	Gly	Lys	Arg	Asn	Asp	Thr	Gly	Val	Phe	Val	Ser	Asp	Ile	530	535	540
Val	Lys	Gly	Gly	Ile	Ala	Asp	Ala	Asp	Gly	Arg	Leu	Met	Gln	Gly	545	550	555
Asp	Gln	Ile	Leu	Met	Val	Asn	Gly	Glu	Asp	Val	Arg	Asn	Ala	Thr	560	565	570
Gln	Glu	Ala	Val	Ala	Ala	Leu	Leu	Lys	Cys	Ser	Leu	Gly	Thr	Val	575	580	585
Thr	Leu	Glu	Val	Gly	Arg	Ile	Lys	Ala	Gly	Pro	Phe	His	Ser	Glu	590	595	600
Arg	Arg	Pro	Ser	Gln	Ser	Ser	Gln	Val	Ser	Glu	Gly	Ser	Leu	Ser	605	610	615
Ser	Phe	Thr	Phe	Pro	Leu	Ser	Gly	Ser	Ser	Thr	Ser	Glu	Ser	Leu	620	625	630
Glu	Ser	Ser	Ser	Lys	Lys	Asn	Ala	Leu	Ala	Ser	Glu	Ile	Gln	Gly	635	640	645
Leu	Arg	Thr	Val	Glu	Met	Lys	Lys	Gly	Pro	Thr	Asp	Ser	Leu	Gly	650	655	660
Ile	Ser	Ile	Ala	Gly	Gly	Val	Gly	Ser	Pro	Leu	Gly	Asp	Val	Pro	665	670	675
Ile	Phe	Ile	Ala	Met	Met	His	Pro	Thr	Gly	Val	Ala	Ala	Gln	Thr	680	685	690
Gln	Lys	Leu	Arg	Val	Gly	Asp	Arg	Ile	Val	Thr	Ile	Cys	Gly	Thr	695	700	705
Ser	Thr	Glu	Gly	Met	Thr	His	Thr	Gln	Ala	Val	Asn	Leu	Leu	Lys	710	715	720
Asn	Ala	Ser	Gly	Ser	Ile	Glu	Met	Gln	Val	Val	Ala	Gly	Gly	Asp	725	730	735
Val	Ser	Val	Val	Thr	Gly	His	Gln	Gln	Glu	Pro	Ala	Ser	Ser	Ser	740	745	750
Leu	Ser	Phe	Thr	Gly	Leu	Thr	Ser	Ser	Ser	Ile	Phe	Gln	Asp	Asp	755	760	765



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Leu	Gly	Pro	Pro	Gln	Cys	Lys	Ser	Ile	Thr	Leu	Glu	Arg	Gly	Pro	
				770					775					780	
Asp	Gly	Leu	Gly	Phe	Ser	Ile	Val	Gly	Gly	Tyr	Gly	Ser	Pro	His	
				785					790					795	
Gly	Asp	Leu	Pro	Ile	Tyr	Val	Lys	Thr	Val	Phe	Ala	Lys	Gly	Ala	
				800					805					810	
Ala	Ser	Glu	Asp	Gly	Arg	Leu	Lys	Arg	Gly	Asp	Gln	Ile	Ile	Ala	
				815					820					825	
Val	Asn	Gly	Gln	Ser	Leu	Glu	Gly	Val	Thr	His	Glu	Glu	Ala	Val	
				830					835					840	
Ala	Ile	Leu	Lys	Arg	Thr	Lys	Gly	Thr	Val	Thr	Leu	Met	Val	Leu	
				845					850					855	

Ser

<210> 13

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3800639CD1

<400> 13

Met	Glu	Thr	Gly	Ala	Ala	Glu	Leu	Tyr	Asp	Gln	Ala	Leu	Leu	Gly	
1				5					10					15	
Ile	Leu	Gln	His	Val	Gly	Asn	Val	Gln	Asp	Phe	Leu	Arg	Val	Leu	
				20					25					30	
Phe	Gly	Phe	Leu	Tyr	Arg	Lys	Thr	Asp	Phe	Tyr	Arg	Leu	Leu	Arg	
				35					40					45	
His	Pro	Ser	Asp	Arg	Met	Gly	Phe	Pro	Pro	Gly	Ala	Ala	Gln	Ala	
				50					55					60	
Leu	Val	Leu	Gln	Val	Phe	Lys	Thr	Phe	Asp	His	Met	Ala	Arg	Gln	
				65					70					75	
Asp	Asp	Glu	Lys	Arg	Arg	Gln	Glu	Leu	Glu	Glu	Lys	Ile	Arg	Arg	
				80					85					90	
Lys	Glu	Glu	Glu	Glu	Ala	Lys	Thr	Val	Ser	Ala	Ala	Ala	Ala	Glu	
				95					100					105	
Lys	Glu	Pro	Val	Pro	Val	Pro	Val	Gln	Glu	Ile	Glu	Ile	Asp	Ser	
				110					115					120	
Thr	Thr	Glu	Leu	Asp	Gly	His	Gln	Glu	Val	Glu	Lys	Val	Gln	Pro	
				125					130					135	
Pro	Gly	Pro	Val	Lys	Glu	Met	Ala	His	Gly	Ser	Gln	Glu	Ala	Glu	
				140					145					150	
Ala	Pro	Gly	Ala	Val	Ala	Gly	Ala	Ala	Glu	Val	Pro	Arg	Glu	Pro	
				155					160					165	
Pro	Ile	Leu	Pro	Arg	Ile	Gln	Glu	Gln	Phe	Gln	Lys	Asn	Pro	Asp	
				170					175					180	
Ser	Tyr	Asn	Gly	Ala	Val	Arg	Glu	Asn	Tyr	Thr	Trp	Ser	Gln	Asp	
				185					190					195	
Tyr	Thr	Asp	Leu	Glu	Val	Arg	Val	Pro	Val	Pro	Lys	His	Val	Val	
				200					205					210	
Lys	Gly	Lys	Gln	Val	Ser	Val	Ala	Leu	Ser	Ser	Ser	Ser	Ile	Arg	

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	215		220		225
Val Ala Met Leu	Glu Glu Asn Gly Glu	Arg Val Leu Met Glu	Gly		
	230		235		240
Lys Leu Thr His	Lys Ile Asn Thr Glu	Ser Ser Leu Trp Ser	Leu		
	245		250		255
Glu Pro Gly Lys	Cys Val Leu Val Asn	Leu Ser Lys Val Gly	Glu		
	260		265		270
Tyr Trp Trp Asn	Ala Ile Leu Glu Gly	Glu Glu Pro Ile Asp	Ile		
	275		280		285
Asp Lys Ile Asn	Lys Glu Arg Ser Met	Ala Thr Val Asp Glu	Glu		
	290		295		300
Glu Gln Ala Val	Leu Asp Arg Leu Thr	Phe Asp Tyr His Gln	Lys		
	305		310		315
Leu Gln Gly Lys	Pro Gln Ser His Glu	Leu Lys Val His Glu	Met		
	320		325		330
Leu Lys Lys Gly	Trp Asp Ala Glu Gly	Ser Pro Phe Arg Gly	Gln		
	335		340		345
Arg Phe Asp Pro	Ala Met Phe Asn Ile	Ser Pro Gly Ala Val	Gln		
	350		355		360
Phe					

<210> 14

<211> 632

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 533825CD1

<400> 14

Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala		
1	5	10
Asn Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu		
	20	25
Leu Cys Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys		
	35	40
Arg Arg Ser Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr		
	50	55
Ala Thr Ala Pro Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser		
	65	70
Leu Met Thr Asp Glu Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser		
	80	85
Ser Ala Glu Asp Gly Gln Pro Ala Ile Ser Pro Val Asp Ser Gly		
	95	100
Arg Ser Asn Arg Thr Arg Ala Arg Pro Phe Glu Arg Ser Thr Ile		
	110	115
Arg Ser Arg Ser Phe Lys Lys Ile Asn Arg Ala Leu Ser Val Leu		
	125	130
Arg Arg Thr Lys Ser Gly Ser Ala Val Ala Asn His Ala Asp Gln		
	140	145
Gly Arg Glu Asn Ser Glu Asn Ile Thr Ala Pro Glu Val Phe Pro		
	155	160
		165

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Arg Leu Tyr His	Leu Ile Pro Asp Gly	Glu Ile Thr Ser Ile Lys	
	170	175	180
Ile Asn Arg Val	Asp Pro Ser Glu Ser	Leu Ser Ile Arg Leu Val	
	185	190	195
Gly Gly Ser Glu	Thr Pro Leu Val His	Ile Ile Ile Gln His Ile	
	200	205	210
Tyr Arg Asp Gly	Val Ile Ala Arg Asp	Gly Arg Leu Leu Pro Gly	
	215	220	225
Asp Ile Ile Leu	Lys Val Asn Gly Met	Asp Ile Ser Asn Val Pro	
	230	235	240
His Asn Tyr Ala	Val Arg Leu Leu Arg	Gln Pro Cys Gln Val Leu	
	245	250	255
Trp Leu Thr Val	Met Arg Glu Gln Lys	Phe Arg Ser Arg Asn Asn	
	260	265	270
Gly Gln Ala Pro	Asp Ala Tyr Arg Pro	Arg Asp Asp Ser Phe His	
	275	280	285
Val Ile Leu Asn	Lys Ser Ser Pro Glu	Glu Gln Leu Gly Ile Lys	
	290	295	300
Leu Val Arg Lys	Val Asp Glu Pro Gly	Val Phe Ile Phe Asn Val	
	305	310	315
Leu Asp Gly Gly	Val Ala Tyr Arg His	Gly Gln Leu Glu Glu Asn	
	320	325	330
Asp Arg Val Leu	Ala Ile Asn Gly His	Asp Leu Arg Tyr Gly Ser	
	335	340	345
Pro Glu Ser Ala	Ala His Leu Ile Gln	Ala Ser Glu Arg Arg Val	
	350	355	360
His Leu Val Val	Ser Arg Gln Val Arg	Gln Arg Ser Pro Asp Ile	
	365	370	375
Phe Gln Glu Ala	Gly Trp Asn Ser Asn	Gly Ser Trp Ser Pro Gly	
	380	385	390
Pro Gly Glu Arg	Ser Asn Thr Pro Lys	Pro Leu His Pro Thr Ile	
	395	400	405
Thr Cys His Glu	Lys Val Val Asn Ile	Gln Lys Asp Pro Gly Glu	
	410	415	420
Ser Leu Gly Met	Ala Val Ala Gly Gly	Ala Ser His Arg Glu Trp	
	425	430	435
Asp Leu Pro Ile	Tyr Val Ile Ser Val	Glu Pro Gly Gly Val Ile	
	440	445	450
Ser Arg Asp Gly	Arg Ile Lys Thr Gly	Asp Ile Leu Leu Asn Val	
	455	460	465
Asp Gly Val Glu	Leu Thr Glu Val Ser	Arg Ser Glu Ala Val Ala	
	470	475	480
Leu Leu Lys Arg	Thr Ser Ser Ser Ile	Val Leu Lys Ala Leu Glu	
	485	490	495
Val Lys Glu Tyr	Glu Pro Gln Glu Asp	Cys Ser Ser Pro Ala Ala	
	500	505	510
Leu Asp Ser Asn	His Asn Met Ala Pro	Pro Ser Asp Trp Ser Pro	
	515	520	525
Ser Trp Val Met	Trp Leu Glu Leu Pro	Arg Cys Leu Tyr Asn Cys	
	530	535	540
Lys Asp Ile Val	Leu Arg Arg Asn Thr	Ala Gly Ser Leu Gly Phe	
	545	550	555
Cys Ile Val Gly	Gly Tyr Glu Glu Tyr	Asn Gly Asn Lys Pro Phe	
	560	565	570

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Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575					580					585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590					595					600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605					610					615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
				620					625					630
Phe	Leu													

<210> 15

<211> 391

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1311833CD1

<400> 15

Met	Lys	Met	Lys	Ile	Gln	Lys	Lys	Glu	Lys	Gln	Leu	Ser	Asn	Leu
1				5					10					15
Lys	Val	Leu	Asn	His	Ser	Pro	Met	Ser	Asp	Ala	Ser	Val	Asn	Phe
				20					25					30
Asp	Tyr	Lys	Ser	Pro	Ser	Pro	Phe	Asp	Cys	Ser	Thr	Asp	Gln	Glu
				35					40					45
Glu	Lys	Ile	Glu	Asp	Val	Ala	Ser	His	Cys	Leu	Pro	Gln	Lys	Asp
				50					55					60
Leu	Tyr	Thr	Ala	Glu	Glu	Glu	Ala	Ala	Thr	Leu	Phe	Pro	Arg	Lys
				65					70					75
Met	Thr	Ser	His	Asn	Gly	Met	Glu	Asp	Ser	Gly	Gly	Gly	Gly	Thr
				80					85					90
Gly	Val	Lys	Lys	Lys	Arg	Lys	Lys	Lys	Glu	Pro	Gly	Asp	Gln	Glu
				95					100					105
Gly	Ala	Ala	Lys	Gly	Ser	Lys	Asp	Arg	Glu	Pro	Lys	Pro	Lys	Arg
				110					115					120
Lys	Arg	Glu	Pro	Lys	Glu	Pro	Lys	Glu	Pro	Arg	Lys	Ala	Lys	Glu
				125					130					135
Pro	Lys	Lys	Ala	Lys	Glu	His	Lys	Glu	Pro	Lys	Gln	Lys	Asp	Gly
				140					145					150
Ala	Lys	Lys	Ala	Arg	Lys	Pro	Arg	Glu	Ala	Ser	Gly	Thr	Lys	Glu
				155					160					165
Ala	Lys	Glu	Lys	Arg	Ser	Cys	Thr	Asp	Ser	Ala	Ala	Arg	Thr	Lys
				170					175					180
Ser	Arg	Lys	Ala	Ser	Lys	Glu	Gln	Gly	Pro	Thr	Pro	Val	Glu	Lys
				185					190					195
Lys	Lys	Lys	Gly	Lys	Arg	Lys	Ser	Glu	Thr	Thr	Val	Glu	Ser	Leu
				200					205					210
Glu	Leu	Asp	Gln	Gly	Leu	Thr	Asn	Pro	Ser	Leu	Arg	Ser	Pro	Glu
				215					220					225
Glu	Ser	Thr	Glu	Ser	Thr	Asp	Ser	Gln	Lys	Arg	Arg	Ser	Gly	Arg
				230					235					240
Gln	Val	Lys	Arg	Arg	Lys	Tyr	Asn	Glu	Asp	Leu	Asp	Phe	Lys	Val

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	245		250		255
Val Asp Asp Asp Gly Glu Thr Ile Ala	Val Leu Gly Ala Gly Arg				
	260		265		270
Thr Ser Ala Leu Ser Ala Ser Thr Leu	Ala Trp Gln Ala Glu Glu				
	275		280		285
Pro Pro Glu Asp Asp Ala Asn Ile Ile	Glu Lys Ile Leu Ala Ser				
	290		295		300
Lys Thr Val Gln Glu Val His Pro Gly	Glu Pro Pro Phe Asp Leu				
	305		310		315
Glu Leu Phe Tyr Val Lys Tyr Arg Asn	Phe Ser Tyr Leu His Cys				
	320		325		330
Lys Trp Ala Thr Met Glu Glu Leu Glu	Lys Asp Pro Arg Ile Ala				
	335		340		345
Gln Lys Ile Lys Arg Phe Arg Asn Lys	Gln Ala Gln Met Lys His				
	350		355		360
Ile Phe Thr Glu Val Lys Gln Tyr Leu	Leu Thr His Leu Thr Ala				
	365		370		375
Ala Phe Leu Ala Ala Val Asn Thr Val	Phe Thr Phe Leu Ser Pro				
	380		385		390
Ser					

<210> 16

<211> 490

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1342819CD1

<400> 16

Met Glu Asp Ser Ala Ser Ala Ser Leu Ser Ser Ala Ala Ala Thr		
1	5	10
Gly Thr Ser Thr Ser Thr Pro Ala Ala Pro Thr Ala Arg Lys Gln		
	20	25
Leu Asp Lys Glu Gln Val Arg Lys Ala Val Asp Ala Leu Leu Thr		
	35	40
His Cys Lys Ser Arg Lys Asn Asn Tyr Gly Leu Leu Leu Asn Glu		
	50	55
Asn Glu Ser Leu Phe Leu Met Val Val Leu Trp Lys Ile Pro Ser		
	65	70
Lys Glu Leu Arg Val Arg Leu Thr Leu Pro His Ser Ile Arg Ser		
	80	85
Asp Ser Glu Asp Ile Cys Leu Phe Thr Lys Asp Glu Pro Asn Ser		
	95	100
Thr Pro Glu Lys Thr Glu Gln Phe Tyr Arg Lys Leu Leu Asn Lys		
	110	115
His Gly Ile Lys Thr Val Ser Gln Ile Ile Ser Leu Gln Thr Leu		
	125	130
Lys Lys Glu Tyr Lys Ser Tyr Glu Ala Lys Leu Arg Leu Leu Ser		
	140	145
Ser Phe Asp Phe Phe Leu Thr Asp Ala Arg Ile Arg Arg Leu Leu		
	155	160
		165

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Pro	Ser	Leu	Ile	Gly	Arg	His	Phe	Tyr	Gln	Arg	Lys	Lys	Val	Pro	
				170					175					180	
Val	Ser	Val	Asn	Leu	Leu	Ser	Lys	Asn	Leu	Ser	Arg	Glu	Ile	Asn	
				185					190					195	
Asp	Cys	Ile	Gly	Gly	Thr	Val	Leu	Asn	Ile	Ser	Lys	Ser	Gly	Ser	
				200					205					210	
Cys	Ser	Ala	Ile	Arg	Ile	Gly	His	Val	Gly	Met	Gln	Ile	Glu	His	
				215					220					225	
Ile	Ile	Glu	Asn	Ile	Val	Ala	Val	Thr	Lys	Gly	Leu	Ser	Glu	Lys	
				230					235					240	
Leu	Pro	Glu	Lys	Trp	Glu	Ser	Val	Lys	Leu	Leu	Phe	Val	Lys	Thr	
				245					250					255	
Glu	Lys	Ser	Ala	Ala	Leu	Pro	Ile	Phe	Ser	Ser	Phe	Val	Ser	Asn	
				260					265					270	
Trp	Asp	Glu	Ala	Thr	Lys	Arg	Ser	Leu	Leu	Asn	Lys	Lys	Lys	Lys	
				275					280					285	
Glu	Ala	Arg	Arg	Lys	Arg	Arg	Glu	Arg	Asn	Phe	Glu	Lys	Gln	Lys	
				290					295					300	
Glu	Arg	Lys	Lys	Lys	Arg	Gln	Gln	Ala	Arg	Lys	Thr	Ala	Ser	Val	
				305					310					315	
Leu	Ser	Lys	Asp	Asp	Val	Ala	Pro	Glu	Ser	Gly	Asp	Thr	Thr	Val	
				320					325					330	
Lys	Lys	Pro	Glu	Ser	Lys	Lys	Glu	Gln	Thr	Pro	Glu	His	Gly	Lys	
				335					340					345	
Lys	Lys	Arg	Gly	Arg	Gly	Lys	Ala	Gln	Val	Lys	Ala	Thr	Asn	Glu	
				350					355					360	
Ser	Glu	Asp	Glu	Ile	Pro	Gln	Leu	Val	Pro	Ile	Gly	Lys	Lys	Thr	
				365					370					375	
Pro	Ala	Asn	Glu	Lys	Val	Glu	Ile	Gln	Lys	His	Ala	Thr	Gly	Lys	
				380					385					390	
Lys	Ser	Pro	Ala	Lys	Ser	Pro	Asn	Pro	Ser	Thr	Pro	Arg	Gly	Lys	
				395					400					405	
Lys	Arg	Lys	Ala	Leu	Pro	Ala	Ser	Glu	Thr	Pro	Lys	Ala	Ala	Glu	
				410					415					420	
Ser	Glu	Thr	Pro	Gly	Lys	Ser	Pro	Glu	Lys	Lys	Pro	Lys	Ile	Lys	
				425					430					435	
Glu	Glu	Ala	Val	Lys	Glu	Lys	Ser	Pro	Ser	Leu	Gly	Lys	Lys	Asp	
				440					445					450	
Ala	Arg	Gln	Thr	Pro	Lys	Lys	Pro	Glu	Ala	Lys	Phe	Phe	Thr	Thr	
				455					460					465	
Pro	Ser	Lys	Ser	Val	Arg	Lys	Ala	Ser	His	Thr	Pro	Lys	Lys	Trp	
				470					475					480	
Pro	Lys	Lys	Pro	Lys	Val	Pro	Gln	Ser	Thr						
				485					490						

<210> 17

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1871288CD1

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<400> 17

Met	Ala	Glu	Leu	Glu	Phe	Val	Gln	Ile	Ile	Ile	Ile	Val	Val	Val	
1				5					10					15	
Met	Met	Val	Met	Val	Val	Val	Ile	Thr	Cys	Leu	Leu	Ser	His	Tyr	
				20					25					30	
Lys	Leu	Ser	Ala	Arg	Ser	Phe	Ile	Ser	Arg	His	Ser	Gln	Gly	Arg	
				35					40					45	
Arg	Arg	Glu	Asp	Ala	Leu	Ser	Ser	Glu	Gly	Cys	Leu	Trp	Pro	Ser	
				50					55					60	
Glu	Ser	Thr	Val	Ser	Gly	Asn	Gly	Ile	Pro	Glu	Pro	Gln	Val	Tyr	
				65					70					75	
Ala	Pro	Pro	Arg	Pro	Thr	Asp	Arg	Leu	Ala	Val	Pro	Pro	Phe	Ala	
				80					85					90	
Gln	Arg	Glu	Arg	Phe	His	Arg	Phe	Gln	Pro	Thr	Tyr	Pro	Tyr	Leu	
				95					100					105	
Gln	His	Glu	Ile	Asp	Leu	Pro	Pro	Thr	Ile	Ser	Leu	Ser	Asp	Gly	
				110					115					120	
Glu	Glu	Pro	Pro	Pro	Tyr	Gln	Gly	Pro	Cys	Thr	Leu	Gln	Leu	Arg	
				125					130					135	
Asp	Pro	Glu	Gln	Gln	Leu	Glu	Leu	Asn	Arg	Glu	Ser	Val	Arg	Ala	
				140					145					150	
Pro	Pro	Asn	Arg	Thr	Ile	Phe	Asp	Ser	Asp	Leu	Met	Asp	Ser	Ala	
				155					160					165	
Arg	Leu	Gly	Gly	Pro	Cys	Pro	Pro	Ser	Ser	Asn	Ser	Gly	Ile	Ser	
				170					175					180	
Ala	Thr	Cys	Tyr	Gly	Ser	Gly	Gly	Arg	Met	Glu	Gly	Pro	Pro	Pro	
				185					190					195	
Thr	Tyr	Ser	Glu	Val	Ile	Gly	His	Tyr	Pro	Gly	Ser	Ser	Phe	Gln	
				200					205					210	
His	Gln	Gln	Ser	Ser	Gly	Pro	Pro	Ser	Leu	Leu	Glu	Gly	Thr	Arg	
				215					220					225	
Leu	His	His	Thr	His	Ile	Ala	Pro	Leu	Glu	Ser	Ala	Ala	Ile	Trp	
				230					235					240	
Ser	Lys	Glu	Lys	Asp	Lys	Gln	Lys	Gly	His	Pro	Leu				
				245					250						

<210> 18

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2587338CD1

<400> 18

Met	Glu	Ser	Ala	Arg	Glu	Asn	Ile	Asp	Leu	Gln	Pro	Gly	Ser	Ser	
1				5					10					15	
Asp	Pro	Arg	Ser	Gln	Pro	Ile	Asn	Leu	Asn	His	Tyr	Ala	Thr	Lys	
				20					25					30	
Lys	Ser	Val	Ala	Glu	Ser	Met	Leu	Asp	Val	Ala	Leu	Phe	Met	Ser	
				35					40					45	
Asn	Ala	Met	Arg	Leu	Lys	Ala	Val	Leu	Glu	Gln	Gly	Pro	Ser	Ser	
				50					55					60	

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His	Tyr	Tyr	Thr	Thr	Leu	Val	Thr	Leu	Ile	Ser	Leu	Ser	Leu	Leu
				65					70					75
Leu	Gln	Val	Val	Ile	Gly	Val	Leu	Leu	Val	Val	Ile	Ala	Arg	Leu
				80					85					90
Asn	Leu	Asn	Glu	Val	Glu	Lys	Gln	Trp	Arg	Leu	Asn	Gln	Leu	Asn
				95					100					105
Asn	Gly	Ser	His	Ile	Leu	Val	Phe	Phe	Thr	Val	Val	Ile	Asn	Gly
				110					115					120
Phe	Ile	Thr	Gly	Phe	Gly	Ala	His	Lys	Thr	Arg	Val	Leu	Ala	Cys
				125					130					135
Gln	Asp	Ser	Arg	Asn	Pro	Leu								
				140										

<210> 19

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2821211CD1

<400> 19

Met	Glu	Ile	Ile	Glu	Asn	Ser	Phe	His	Ile	Asn	Gly	Leu	Lys	Ile
1				5					10					15
Asn	Gln	Arg	Thr	Leu	Cys	Val	His	Val	Cys	Ile	Ser	Ala	His	Arg
				20					25					30
Asn	Ile	Tyr	Thr	Tyr	Val	Asp	Tyr	Ile	His	Val	Cys	Ile	Tyr	Val
				35					40					45
Tyr	Ile	Tyr	Ile	His	Leu	Tyr	Lys	Cys	Ile	Tyr	Thr	Tyr	Thr	Tyr
				50					55					60
Asn	Val	Cys	Met	Cys	Ile	Tyr								
				65										

<210> 20

<211> 455

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2824832CD1

<400> 20

Met	Phe	Gln	Phe	His	Ala	Gly	Ser	Trp	Glu	Ser	Trp	Cys	Cys	Cys
1				5					10					15
Cys	Leu	Ile	Pro	Ala	Asp	Arg	Pro	Trp	Asp	Arg	Gly	Gln	His	Trp
				20					25					30
Gln	Leu	Glu	Met	Ala	Asp	Thr	Arg	Ser	Val	His	Glu	Thr	Arg	Phe
				35					40					45
Glu	Ala	Ala	Val	Lys	Val	Ile	Gln	Ser	Leu	Pro	Lys	Asn	Gly	Ser
				50					55					60
Phe	Gln	Pro	Thr	Asn	Glu	Met	Met	Leu	Lys	Phe	Tyr	Ser	Phe	Tyr
				65					70					75



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Lys	Gln	Ala	Thr	Glu	Gly	Pro	Cys	Lys	Leu	Ser	Arg	Pro	Gly	Phe	
				80					85					90	
Trp	Asp	Pro	Ile	Gly	Arg	Tyr	Lys	Trp	Asp	Ala	Trp	Ser	Ser	Leu	
				95					100					105	
Gly	Asp	Met	Thr	Lys	Glu	Glu	Ala	Met	Ile	Ala	Tyr	Val	Glu	Glu	
				110					115					120	
Met	Lys	Lys	Ile	Ile	Glu	Thr	Met	Pro	Met	Thr	Glu	Lys	Val	Glu	
				125					130					135	
Glu	Leu	Leu	Arg	Val	Ile	Gly	Pro	Phe	Tyr	Glu	Ile	Val	Glu	Asp	
				140					145					150	
Lys	Lys	Ser	Gly	Arg	Ser	Ser	Asp	Ile	Thr	Ser	Asp	Leu	Gly	Asn	
				155					160					165	
Val	Leu	Thr	Ser	Thr	Pro	Asn	Ala	Lys	Thr	Val	Asn	Gly	Lys	Ala	
				170					175					180	
Glu	Ser	Ser	Asp	Ser	Gly	Ala	Glu	Ser	Glu	Glu	Glu	Glu	Ala	Gln	
				185					190					195	
Glu	Glu	Val	Lys	Gly	Ala	Glu	Gln	Ser	Asp	Asn	Asp	Ile	Asn	Asp	
				200					205					210	
Asp	His	Val	Glu	Asp	Val	Thr	Gly	Ile	Gln	His	Leu	Thr	Ser	Asp	
				215					220					225	
Ser	Asp	Ser	Glu	Val	Tyr	Cys	Asp	Ser	Met	Glu	Gln	Phe	Gly	Gln	
				230					235					240	
Glu	Glu	Ser	Leu	Asp	Ser	Phe	Thr	Ser	Asn	Asn	Gly	Pro	Phe	Gln	
				245					250					255	
Tyr	Tyr	Leu	Gly	Gly	His	Ser	Ser	Gln	Pro	Met	Glu	Asn	Ser	Gly	
				260					265					270	
Phe	Arg	Glu	Asp	Ile	Gln	Val	Pro	Pro	Gly	Asn	Gly	Asn	Ile	Gly	
				275					280					285	
Asn	Met	Gln	Val	Val	Ala	Val	Glu	Gly	Lys	Gly	Glu	Val	Lys	His	
				290					295					300	
Gly	Gly	Glu	Asp	Gly	Arg	Asn	Asn	Ser	Gly	Ala	Pro	His	Arg	Glu	
				305					310					315	
Lys	Arg	Gly	Gly	Glu	Thr	Asp	Glu	Phe	Ser	Asn	Val	Arg	Arg	Gly	
				320					325					330	
Arg	Gly	His	Arg	Met	Gln	His	Leu	Ser	Glu	Gly	Thr	Lys	Gly	Arg	
				335					340					345	
Gln	Val	Gly	Ser	Gly	Gly	Asp	Gly	Glu	Arg	Trp	Gly	Ser	Asp	Arg	
				350					355					360	
Gly	Ser	Arg	Gly	Ser	Leu	Asn	Glu	Gln	Ile	Ala	Leu	Val	Leu	Met	
				365					370					375	
Arg	Leu	Gln	Glu	Asp	Met	Gln	Asn	Val	Leu	Gln	Arg	Leu	Gln	Lys	
				380					385					390	
Leu	Glu	Thr	Leu	Thr	Ala	Leu	Gln	Ala	Lys	Ser	Ser	Thr	Ser	Thr	
				395					400					405	
Leu	Gln	Thr	Ala	Pro	Gln	Pro	Thr	Ser	Gln	Arg	Pro	Ser	Trp	Trp	
				410					415					420	
Pro	Phe	Glu	Met	Ser	Pro	Gly	Val	Leu	Thr	Phe	Ala	Ile	Ile	Trp	
				425					430					435	
Pro	Phe	Ile	Ala	Gln	Trp	Leu	Val	Tyr	Leu	Tyr	Tyr	Gln	Arg	Arg	
				440					445					450	
Arg	Arg	Lys	Leu	Asn											
				455											

<210> 21

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<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3070147CD1

<400> 21

Met	Gln	Leu	Thr	Arg	Cys	Cys	Phe	Val	Phe	Leu	Val	Gln	Gly	Ser
1				5					10					15
Leu	Tyr	Leu	Val	Ile	Cys	Gly	Gln	Asp	Asp	Gly	Pro	Pro	Gly	Ser
				20					25					30
Glu	Asp	Pro	Glu	Arg	Asp	Asp	His	Glu	Gly	Gln	Pro	Arg	Pro	Arg
				35					40					45
Val	Pro	Arg	Lys	Arg	Gly	His	Ile	Ser	Pro	Lys	Ser	Arg	Pro	Met
				50					55					60
Ala	Asn	Ser	Thr	Leu	Leu	Gly	Leu	Leu	Ala	Pro	Thr	Gly	Glu	Ala
				65					70					75
Trp	Gly	Ile	Leu	Gly	Gln	Pro	Pro	Asn	Arg	Pro	Asn	His	Ser	Pro
				80					85					90
Pro	Pro	Ser	Ala	Lys	Val	Lys	Lys	Ile	Phe	Gly	Trp	Gly	Asp	Phe
				95					100					105
Tyr	Ser	Asn	Ile	Lys	Thr	Val	Ala	Leu	Asn	Leu	Leu	Val	Thr	Gly
				110					115					120
Lys	Ile	Val	Asp	His	Gly	Asn	Gly	Thr	Phe	Ser	Val	His	Phe	Gln
				125					130					135
His	Asn	Ala	Thr	Gly	Gln	Gly	Asn	Ile	Ser	Ile	Ser	Leu	Val	Pro
				140					145					150
Pro	Ser	Lys	Ala	Val	Glu	Phe	His	Gln	Glu	Gln	Gln	Ile	Phe	Ile
				155					160					165
Glu	Ala	Lys	Ala	Ser	Lys	Ile	Phe	Asn	Cys	Arg	Met	Glu	Trp	Glu
				170					175					180
Lys	Val	Glu	Arg	Gly	Arg	Arg	Thr	Ser	Leu	Cys	Thr	His	Asp	Pro
				185					190					195
Ala	Lys	Ile	Cys	Ser	Arg	Asp	His	Ala	Gln	Ser	Ser	Ala	Thr	Trp
				200					205					210
Ser	Cys	Ser	Gln	Pro	Phe	Lys	Val	Val	Cys	Val	Tyr	Ile	Ala	Phe
				215					220					225
Tyr	Ser	Thr	Asp	Tyr	Arg	Leu	Val	Gln	Lys	Val	Cys	Pro	Asp	Tyr
				230					235					240
Asn	Tyr	His	Ser	Asp	Thr	Pro	Tyr	Tyr	Pro	Ser	Gly			
				245					250					

<210> 22

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3271841CD1

<400> 22

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Met	Glu	Ser	Arg	Gly	Lys	Ser	Ala	Ser	Ser	Pro	Lys	Pro	Asp	Thr
1				5					10					15
Lys	Val	Pro	Gln	Val	Thr	Thr	Glu	Ala	Lys	Val	Pro	Pro	Ala	Ala
				20					25					30
Asp	Gly	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Ser	Lys	Lys	Glu	Ala	Pro
				35					40					45
Ala	Glu	Lys	Gln	Gln	Pro	Pro	Ala	Ala	Pro	Thr	Thr	Ala	Pro	Ala
				50					55					60
Lys	Lys	Thr	Ser	Ala	Lys	Ala	Asp	Pro	Ala	Leu	Leu	Asn	Asn	His
				65					70					75
Ser	Asn	Leu	Lys	Pro	Ala	Pro	Thr	Val	Pro	Ser	Ser	Pro	Asp	Ala
				80					85					90
Thr	Pro	Glu	Pro	Lys	Gly	Pro	Gly	Asp	Gly	Ala	Glu	Glu	Asp	Glu
				95					100					105
Ala	Ala	Ser	Gly	Gly	Pro	Gly	Gly	Arg	Gly	Pro	Trp	Ser	Cys	Glu
				110					115					120
Asn	Phe	Asn	Pro	Leu	Leu	Val	Ala	Gly	Gly	Val	Ala	Val	Ala	Ala
				125					130					135
Ile	Ala	Leu	Ile	Leu	Gly	Val	Ala	Phe	Leu	Val	Arg	Lys	Lys	
				140					145					

<210> 23

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3537827CD1

<400> 23

Met	Met	Pro	Ser	Cys	Asn	Arg	Ser	Cys	Ser	Cys	Ser	Arg	Gly	Pro
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Ser	Val	Glu	Asp	Gly	Lys	Trp	Tyr	Gly	Val	Arg	Ser	Tyr	Leu	His
				20					25					30
Leu	Phe	Tyr	Glu	Asp	Cys	Ala	Gly	Thr	Ala	Leu	Ser	Asp	Asp	Pro
				35					40					45
Glu	Gly	Pro	Pro	Val	Leu	Cys	Pro	Arg	Arg	Pro	Trp	Pro	Ser	Leu
				50					55					60
Cys	Trp	Lys	Ile	Ser	Leu	Ser	Ser	Gly	Thr	Leu	Leu	Leu	Leu	Leu
				65					70					75
Gly	Val	Ala	Ala	Leu	Thr	Thr	Gly	Tyr	Ala	Val	Pro	Pro	Lys	Leu
				80					85					90
Glu	Gly	Ile	Gly	Glu	Gly	Glu	Phe	Leu	Val	Leu	Asp	Gln	Arg	Ala
				95					100					105
Ala	Asp	Tyr	Asn	Gln	Ala	Leu	Gly	Thr	Cys	Arg	Leu	Ala	Gly	Thr
				110					115					120
Ala	Leu	Cys	Val	Ala	Ala	Gly	Val	Leu	Leu	Ala	Ile	Cys	Leu	Phe
				125					130					135
Trp	Ala	Met	Ile	Gly	Trp	Leu	Ser	Gln	Asp	Thr	Lys	Ala	Glu	Pro
				140					145					150
Leu	Asp	Pro	Glu	Ala	Asp	Ser	His	Val	Glu	Val	Phe	Gly	Asp	Glu
				155					160					165
Pro	Glu	Gln	Gln	Leu	Ser	Pro	Ile	Phe	Arg	Asn	Ala	Ser	Gly	Gln

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	170		175		180
Ser Trp Phe Ser	Pro Pro Ala Ser Pro	Phe Gly Gln Ser Ser	Val		
	185		190		195
Gln Thr Ile Gln	Pro Lys Arg Asp Ser				
	200				

<210> 24

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3729267CD1

<400> 24

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Lys His Lys Asn Leu Phe Leu Asn Tyr Arg Asn Leu His His Phe		
	20	25 30
Pro Leu Glu Leu Leu Lys Asp Glu Gly Leu Gln Tyr Leu Glu Arg		
	35	40 45
Leu Tyr Met Lys Arg Asn Ser Leu Thr Ser Leu Pro Glu Asn Leu		
	50	55 60
Ala Gln Lys Leu Pro Asn Leu Val Glu Leu Tyr Leu His Ser Asn		
	65	70 75
Asn Ile Val Val Val Pro Glu Ala Ile Gly Ser Leu Val Lys Leu		
	80	85 90
Gln Cys Leu Asp Leu Ser Asp Asn Ala Leu Glu Ile Val Cys Pro		
	95	100 105
Glu Ile Gly Arg Leu Arg Ala Leu Arg His Leu Arg Leu Ala Asn		
	110	115 120
Asn Gln Leu Gln Phe Leu Pro Pro Glu Val Gly Asp Leu Lys Glu		
	125	130 135
Leu Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro		
	140	145 150
Glu Arg Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp		
	155	160 165
Arg Asn Arg Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro		
	170	175 180
Ser Leu Asn Glu Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu		
	185	190 195
Pro Leu Asp Leu Gly Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val		
	200	205 210
Asp Asn Asn Ile His Leu Lys Gly Leu Pro Ser Tyr Leu Tyr Asn		
	215	220 225
Lys Val Ile Gly Cys Ser Gly Cys Gly Ala Pro Ile Gln Val Ser		
	230	235 240
Glu Val Lys Leu Leu Ser Phe Ser Ser Gly Gln Arg Thr Val Phe		
	245	250 255
Leu Pro Ala Glu Val Lys Ala Ile Gly Thr Glu His Asp His Val		
	260	265 270
Leu Pro Leu Gln Glu Leu Ala Met Arg Gly Leu Tyr His Thr Tyr		
	275	280 285

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His	Ser	Leu	Leu	Lys	Asp	Leu	Asn	Phe	Leu	Ser	Pro	Ile	Ser	Leu	
				290					295					300	
Pro	Arg	Ser	Leu	Leu	Glu	Leu	Leu	His	Cys	Pro	Leu	Gly	His	Cys	
				305					310					315	
His	Arg	Cys	Ser	Glu	Pro	Met	Phe	Thr	Ile	Val	Tyr	Pro	Lys	Leu	
				320					325					330	
Phe	Pro	Leu	Arg	Glu	Thr	Pro	Met	Ala	Gly	Leu	His	Gln	Trp	Lys	
				335					340					345	
Thr	Thr	Val	Ser	Phe	Val	Ala	Tyr	Cys	Cys	Ser	Thr	Gln	Cys	Leu	
				350					355					360	
Gln	Thr	Phe	Asp	Leu	Leu	Ser									
				365											

<210> 25

<211> 681

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3768771CD1

<400> 25

Met	Cys	Thr	Tyr	Ile	Asn	Met	Glu	Asn	Phe	Thr	Leu	Ala	Arg	Asp	
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Glu	Lys	Gly	Asn	Val	Leu	Leu	Glu	Asp	Gly	Lys	Gly	Arg	Cys	Pro	
				20					25					30	
Phe	Asp	Pro	Asn	Phe	Lys	Ser	Thr	Ala	Leu	Val	Val	Asp	Gly	Glu	
				35					40					45	
Leu	Tyr	Thr	Gly	Thr	Val	Ser	Ser	Phe	Gln	Gly	Asn	Asp	Pro	Ala	
				50					55					60	
Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg	Pro	Thr	Lys	Thr	Glu	Ser	Ser	
				65					70					75	
Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe	Val	Ala	Ser	Ala	Tyr	Ile	
				80					85					90	
Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp	Asp	Asp	Lys	Ile	Tyr	
				95					100					105	
Phe	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	Phe	Phe	Glu	Asn	
				110					115					120	
Thr	Ile	Val	Ser	Arg	Ile	Ala	Arg	Ile	Cys	Lys	Gly	Asp	Glu	Gly	
				125					130					135	
Gly	Glu	Arg	Val	Leu	Gln	Gln	Arg	Trp	Thr	Ser	Phe	Leu	Lys	Ala	
				140					145					150	
Gln	Leu	Leu	Cys	Ser	Arg	Pro	Asp	Asp	Gly	Phe	Pro	Phe	Asn	Val	
				155					160					165	
Leu	Gln	Asp	Val	Phe	Thr	Leu	Ser	Pro	Ser	Pro	Gln	Asp	Trp	Arg	
				170					175					180	
Asp	Thr	Leu	Phe	Tyr	Gly	Val	Phe	Thr	Ser	Gln	Trp	His	Arg	Gly	
				185					190					195	
Thr	Thr	Glu	Gly	Ser	Ala	Val	Cys	Val	Phe	Thr	Met	Lys	Asp	Val	
				200					205					210	
Gln	Arg	Val	Phe	Ser	Gly	Leu	Tyr	Lys	Glu	Val	Asn	Arg	Glu	Thr	
				215					220					225	
Gln	Gln	Trp	Tyr	Thr	Val	Thr	His	Pro	Val	Pro	Thr	Pro	Arg	Pro	

	230		235		240
Gly Ala Cys Ile Thr Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser					
	245		250		255
Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His					
	260		265		270
Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met Leu Leu Leu Gln					
	275		280		285
Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg Val Pro Gly					
	290		295		300
Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly					
	305		310		315
Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile					
	320		325		330
Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu					
	335		340		345
Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser					
	350		355		360
Gly Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser					
	365		370		375
Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser					
	380		385		390
Gly Ser Ser Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala					
	395		400		405
Thr Arg Pro Trp Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp					
	410		415		420
Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr					
	425		430		435
Gly Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val					
	440		445		450
Asn Thr Leu Ala Cys Pro Leu Leu Ser Asn Leu Ala Thr Arg Leu					
	455		460		465
Trp Leu Arg Asn Gly Ala Pro Val Asn Ala Ser Ala Ser Cys His					
	470		475		480
Val Leu Pro Thr Gly Asp Leu Leu Leu Val Gly Thr Gln Gln Leu					
	485		490		495
Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu Gly Phe Gln Gln Leu					
	500		505		510
Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp Gly Val Ala Asp					
	515		520		525
Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile Ser Thr Ser					
	530		535		540
Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly Ala Asp					
	545		550		555
Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe Val					
	560		565		570
Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg					
	575		580		585
Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val					
	590		595		600
His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro					
	605		610		615
Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly					
	620		625		630
Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ser Arg Val Phe Thr					

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<220>
<221> misc_feature
<223> Incyte ID No: 4248993CD1
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<210> 27
<211> 117
<212> PRT
<213> Homo sapiens
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<400> 27

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Lys	Glu	Gly	Glu	Lys	Ile	Arg	Lys	Lys	Tyr	Pro	Asp	Arg	Val	Pro
				20					25					30
Val	Ile	Val	Glu	Lys	Ala	Pro	Lys	Ala	Arg	Val	Pro	Asp	Leu	Asp

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	35		40		45
Lys Arg Lys Tyr Leu Val Pro Ser Asp Leu Thr Val Gly Gln Phe					
	50		55		60
Tyr Phe Leu Ile Arg Lys Arg Ile His Leu Arg Pro Glu Asp Ala					
	65		70		75
Leu Phe Phe Phe Val Asn Asn Thr Ile Pro Pro Thr Ser Ala Thr					
	80		85		90
Met Gly Gln Leu Tyr Glu Asp Asn His Glu Glu Asp Tyr Phe Leu					
	95		100		105
Tyr Val Ala Tyr Ser Asp Glu Ser Val Tyr Gly Lys					
	110		115		

<210> 28

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2417014CB1

<400> 28

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ccgctacaac cacaaaaccg acgttgccct ctggcaccgg agcaaccaca gtaacgcgga 180
caatgaattt tactttcgct acccaaaaga gtctcactct gttgccagg ctggagtgc 240
acgacgcaat ctgggtcac tgcaaccttc acctccaga tggagtctcg ctcttgttgc 300
ccaggctgga gtgcaatggc acaatctcgg ctaccacaa cctctgctc ccgggttcaa 360
gcgattctcc tgctcagtc tctgagtag ctgggattac agcctggaga gtgtgtttcc 420
actcatagcc gagggccagc gcagtgccac gtcacaggcc atgcaccagc tcttcgggct 480
gtttgtcaca ctgatgtttg cctctgtggg cgggggcctt ggagggtcc tgctgaagct 540
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tgcttgccga gcatgaggat aaagcccaga gacctctgag ggtggaggag gcagacactc 660
aggcctaacc cactgccagc ccctgagagg acacgtcct tttcgaagat gctgactggc 720
tgctactagg aagttctttt tgagctccca ttctccagc tgcaagaagg gagccatgag 780
ccagaaggag gcccctttcc acaggcagcg tctccacagg gagaggggca acaggaggct 840
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caaccgcact gccctaccag cctgcacatg ggtagaagag gccaaattga ggcaccaag 960
tgatccactg gcccacgtc acacagttac agtgaagccc aagccaggcc tggttgaggg 1020
tgataaacgc cactgtgcgg caccgcaaaa aaaaaaaa 1058
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<210> 29

<211> 2235

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2634931CB1

<400> 29

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ggcatctgag aactgtgtcc ttccattcct gagtccagca cttcccaggc caggaactca 120
cacagctttt ggctgagcc cccgttacca agagaaagga ggtttttgcc aaggactcca 180
```



```

aggggagtgct acttgatgct ggtcgggacc caaagcaccc agccctccct gagacattgt 240
gtgagtcggg ctgggcctca aacacggccc ccactgcccc accccagcca ggggtggtgct 300
tgtgtgggta ggactttaaa tccagctgcc agacccttg acgggagaag gagagacggc 360
tggccaccat gcacggctcc tgcagtttcc tgatgcttct gctgccgcta ctgctactgc 420
tgggtggccac cacaggcccc gttggagccc tcacagatga ggagaaacgt ttgatgggtg 480
agctgcacaa cctctaccgg gccaggtat ccccgacggc ctgagacatg ctgcacatga 540
gatgggacga ggagctggcc gccttcgcca aggcctacgc acggcagtgc gtgtggggcc 600
acaacaagga gcgcgggcgc cgcggcgaga atctgttcgc catcacagac gagggcattg 660
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gatggggatt cctaggggca gatgaaggac aagccccact ggagtgggt tctttgagt 2160
ggggaggcag ggacgaggga aggaaagcaa ctctgactc tccaataaaa acctgtccaa 2220
cctgtgaaaa aaaaa 2235

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&lt;210&gt; 30

&lt;211&gt; 1559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 110960CB1

&lt;400&gt; 30

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tacccaagcg gccaccggg cctcaggac cccttcccc agagacggca ccatgacca 180
gggaaagctc tccgtggcta acaaggcccc tgggaccgag gggcagcagc aggtgcatgg 240
cgagaagaag gaggtccag cagtgcctc agccccaccc tcctatgagg aagccacctc 300
tggggagggg atgaaggcag gggccttccc cccagcccc acagcgggtc ctctccacct 360
tagctgggcc tatgtggacc ccagcagcag ctccagctat gacaacgggt tccccaccgg 420
agaccatgag ctcttcacca ctttcagctg ggatgaccag aaagtctcgtc gagtctttgt 480

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atcctatgct gtgttctttg caacctacct gacctggct tgctgttctg gacctaggag 660  
gcatttcccc tggaaacctga ttctcctgac cgtctttacc ctgtccatgg cctacctcac 720  
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cctcctaccc ttccaatatg tgccctggct ccatgcagtt tatgcagcac tgggagcggg 960  
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aggctcctct gggtttgagg gtccaaggga caaggaggag aagcctagca ggatttcaga 1440  
tgcaggagag agaccaggg aagcccgga gagccctgag cccactgca attctcctag 1500  
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<210> 31

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 380721CB1

<220>

<221> unsure

<222> 537, 585

<223> a, t, c, g, or other

<400> 31

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cagttgtctc tgatcacttg tgtggatttt cctggcgtag aacgacagaa gccgctagta 180  
agtcgccaaag acctacagca ggaattctgc accaaagggc ataaaatctt gttattttaa 240  
tttgcatctg ggagaatgtc tgagcaagga gacctgaatc aggcaatagc agaggaagga 300  
gggactgagc aggagacggc cactccagag aacggcattg ttaaatcaga aagtctggat 360  
gaagaggaga aactggaact gcagaggcgg ctggaggctc agaatcaaga aagaagaaaa 420  
tccaagtcag gagcaggaaa aggtaaactg actcgcagtc ttgctgtctg tgaggaatct 480  
tctgccagac caggagggtga aagtcttcag ggtcagactc tctgaaaact gcaaatngga 540  
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tttcctcaaa ggctctcttt tgataaggct gaaccaaata taatcccaag aatactctct 660  
ccttccttgt tggagatgtc ttacctctca gctcccaaaa atgcacttgc ctataagaaa 720  
cacaattgct ggttcatata aacttaggaa atagtgaata aggtgcattt aacttttgag 780  
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<210> 32

<211> 1521

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 829443CB1

<400> 32

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gccccagga ccggggaggc acaggtggcc cccaccacc ggaggagcag ctctgcccc 240
tgtccggggg atgactgatt ctctccgcc aggccacca gaggagaagg ccacccgcc 300
tgagggcaca ggccatgagg ggctctcagg aggtgtgtgt gatgtggctt ctggtgttgg 360
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<223> Incyte ID No: 1470058CB1

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<211> 1338

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1554947CB1

<400> 34

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<212> DNA

<213> Homo sapiens

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PF-0637 USN

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<211> 642

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 1878262CB1

<400> 36

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2253519CB1

<400> 37

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<211> 3957

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<213> Homo sapiens

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<223> Incyte ID No: 3201753CB1

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<211> 3551

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3800639CB1

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<211> 2308

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 533825CB1

<400> 41

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<213> Homo sapiens

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<221> misc\_feature  
<223> Incyte ID No: 1311833CB1

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cttgaacctg ggaggcggag gttgcagtga gccactgcac tccagcctga tgacagagca 1920
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&lt;210&gt; 44

&lt;211&gt; 1061

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1871288CB1

&lt;400&gt; 44

```

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cggaatccca gagccgcagg tctacgcccc gcctcggccc accgaccgcc tggccgtgcc 360
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gggccctgac accctccagc ttccgggacc cgagcagcag ctggaactga accgggagtc 540
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```
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ctccttccag caccagcaga gcagtggggc gccctccttg ctggagggga cccggctcca 780
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gcagaacact ccgcgcttct tagaagagga gtgagaggaa ggcggggggc gcagcaacgc 960
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tgaatgcaca agctaagaga gcttgcaaaa aaaaaaaaaa a 1061
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<210> 45

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2587338CB1

<400> 45

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caggagccag cccatcaacc tgaaccatta cgccaccaag aagagcgtgg cggagagcat 180
gctggacgtg gccctgttca tgtccaacgc catgcggctg aaggcgggtg tggagcaggg 240
accatcctct cactactaca ccacctggt caccctcatc agcctctctc tgctcctgca 300
ggtggtcatc ggtgtcctgc tcgtggtcat tgcacggctg aacctgaatg aggtagaaaa 360
gcagtggcga ctcaaccagc tcaacaacgg cagccacatc ttggtcttct tctactgtgtg 420
catcaatggt ttcatcacag gcttcggggc acataaaaca agggtcctgg cctgccagga 480
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<210> 46

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2821211CB1

<400> 46

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aataaaccaa aggacattat gtgtgcatgt gtgtataagt gcacacagaa atatatatac 420
atatgtagac tatatacatg tgtgtatata tgtgtatata tacatacact tgtataaatg 480
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cacaggtgtg gtgtaattta taaaattaga aagcaactta tcagctactt aagagaaatg 780
gcaagttttg atatgagtat acaatatata aaaatatata tagtgctata tatataaata 840
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```

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aaaatgaaaa taagtgaata ataattaggt taacattggt gctccctgtg acaaaatttt 1020
ataagcaaat ttcaaaagac atgttgtaaa ttaggaggct caacaataaa acattatgct 1080
ccagaaaaaa aaaaaaaaaa                                     1099
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<210> 47

<211> 1727

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2824832CB1

<400> 47

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agtttgccga agaatggttc attccagcca acaaatgaaa tgatgcttaa attttatagc 240
ttctataagc aggcaactga aggacctgt aaactttcaa ggcctggatt ttgggatcct 300
attggaagat ataaatggga tgcttgagtg tctactgggtg atatgaccaa agaggaagcc 360
atgattgcat atgttgaaga aatgaaaaag attattgaaa ctatgccaat gactgagaaa 420
gttgaagaat tgctgcgtgt cataggtcca ttttatgaaa ttgtcgagga caaaaagagt 480
ggcaggagtt ctgatataac ctcagatcct ggtaatgttc tcacttctac tccgaacgcc 540
aaaaccgtta atggtaaagc tgaaagcagt gacagtggag ccgagtctga ggaagaagag 600
gccaagaag aagtgaagg agcagaacaa agtgataatg atataaatga tgatcatgtt 660
gaagatgtta caggaattca gcatttgaca agcgattcag acagtgaagt ttactgtgat 720
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<210> 48

<211> 951

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3070147CB1

&lt;400&gt; 48

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gctgctgctt cgtgttcctg gtgcagggta gcctctatct ggatcatctgt ggccaggatg 180
atggctcctc cggctcagag gaccctgagc gtgatgacca cgagggccag ccccgccccc 240
gggtgcctcg gaagcggggc cacatctcac ctaagtcccg ccccatggcc aattccactc 300
tcctagggct gctggccccg actggggagg cttggggcat tcttgggcag cccccaacc 360
gcccgaacca cagcccccca ccctcagcca aggtgaagaa aatctttggc tggggcgact 420
tctactccaa catcaagacg gtggccctga acctgctcgt cacagggaag attgtggacc 480
atggcaatgg gaccttcagc gtccacttcc aacacaatgc cacaggccag ggaaacatct 540
ccatcagcct cgtgcccccc agtaaagctg tagagtcca ccaggaacag cagatcttca 600
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gccgccggac ctgcctttgc acccacgacc cagccaagat ctgctccga gaccacgctc 720
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```

&lt;210&gt; 49

&lt;211&gt; 1624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3271841CB1

&lt;400&gt; 49

```

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<210> 50

<211> 2080

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3537827CB1

<400> 50

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<210> 51

<211> 1420

<212> DNA

<213> Homo sapiens

PF-0637 USN

<220>

<221> misc\_feature

<223> Incyte ID No: 3729267CB1

<400> 51

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<210> 52

<211> 2703

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3768771CB1

<220>

<221> unsure

<222> 374

<223> a, t, c, g, or other

<400> 52

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```

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&lt;210&gt; 53

&lt;211&gt; 571

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4248993CB1

&lt;400&gt; 53

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ctaagtgagc tgaagcagaa gctggatgag gaaggcagca agtcagcat cctctcgaag 180
caccagcagt ttgtggagca ctgctgcatg cgctgctgct cgcccttcac ctctctcgtc 240
aacaccaagc gccagtgtgg agattgcaaa ttcaatgtct gcaagagctg ctgctcctac 300
cagaagcacg aaaaggcctg ggtctgctgc gtctgccagc aagcgaggct tctgagggcc 360

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<210> 54  
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<212> DNA  
<213> Homo sapiens

<220>  
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ccggagcgga cgtttctgca gctattctga gcacaccttg acgtcggctg agggagcggg 180
acagggctcag cggcgaagga ggcaggcccc gcgcggggat ctcggaagcc ctgcggtgca 240
tcatgaagtt ccagtacaag gaggaccatc cctttgagta tcggaaaaag gaaggagaaa 300
agatccggaa gaaatatccg gacagggtcc ccgtgattgt agagaaggct ccaaaagcca 360
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tctactttct aatccggaag agaatccacc tgagacctga ggacgcctta ttcttctttg 480
tcaacaacac catccctccc accagtgcct ccatgggcca actgtatgag gacaatcatg 540
aggaagacta ttttctgtat gtggcctaca gtgatgagag tgtctatggg aaatgagtgg 600
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cattacacca cacacaccgt catcacattt tcacatgctc aattgatatt ttttgctgct 780
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<211> 375  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> GenBank ID No: g3002527

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  1             5             10             15
Ile Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser
             20             25             30
Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys Thr
             35             40             45
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His	Ala	Arg	Leu	Ile	Leu	Tyr	Phe	Phe	Leu	Val	Glu	Met	Glu	Phe
				50					55					60
Leu	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Pro	Thr	Ser	Asp	Asp
				65					70					75
Pro	Ser	Val	Ser	Ala	Ser	Gln	Ser	Ala	Arg	Tyr	Arg	Thr	Gly	His
				80					85					90
His	Ala	Arg	Leu	Cys	Leu	Ala	Asn	Phe	Cys	Gly	Arg	Asn	Arg	Val
				95					100					105
Ser	Leu	Met	Cys	Pro	Ser	Trp	Ser	Pro	Glu	Leu	Lys	Gln	Ser	Thr
				110					115					120
Cys	Leu	Ser	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Arg	Ala	Ala	Val
				125					130					135
Pro	Gly	Leu	Phe	Ile	Leu	Phe	Phe	Leu	Arg	His	Arg	Cys	Pro	Thr
				140					145					150
Leu	Thr	Gln	Asp	Glu	Val	Gln	Trp	Cys	Asp	His	Ser	Ser	Leu	Gln
				155					160					165
Pro	Ser	Thr	Pro	Glu	Ile	Lys	His	Pro	Pro	Ala	Ser	Ala	Ser	Gln
				170					175					180
Val	Ala	Gly	Thr	Lys	Asp	Met	His	His	Tyr	Thr	Trp	Leu	Ile	Phe
				185					190					195
Ile	Phe	Ile	Phe	Asn	Phe	Leu	Arg	Gln	Ser	Leu	Asn	Ser	Val	Thr
				200					205					210
Gln	Ala	Gly	Val	Gln	Trp	Arg	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu
				215					220					225
Pro	Pro	Gly	Phe	Lys	Leu	Phe	Ser	Cys	Pro	Ser	Leu	Leu	Ser	Ser
				230					235					240
Trp	Asp	Tyr	Arg	Arg	Pro	Pro	Arg	Leu	Ala	Asn	Phe	Phe	Val	Phe
				245					250					255
Leu	Val	Glu	Met	Gly	Phe	Thr	Met	Phe	Ala	Arg	Leu	Ile	Leu	Ile
				260					265					270
Ser	Gly	Pro	Cys	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly
				275					280					285
Ile	Thr	Gly	Val	Ser	His	His	Ala	Arg	Leu	Ile	Phe	Asn	Phe	Cys
				290					295					300
Leu	Phe	Glu	Met	Glu	Ser	His	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln
				305					310					315
Trp	Pro	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu	Pro	Pro	Gly	Leu	Lys
				320					325					330
Arg	Phe	Ser	Cys	Leu	Ser	Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Gly	His
				335					340					345
Leu	Pro	Pro	His	Pro	Ala	Asn	Phe	Cys	Ile	Phe	Ile	Arg	Gly	Gly
				350					355					360
Val	Ser	Pro	Tyr	Leu	Ser	Gly	Trp	Ser	Gln	Thr	Pro	Asp	Leu	Arg
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<210> 56

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> GenBank ID No: g847722

<400> 56

Met	Val	Ser	Phe	Val	Ser	Asn	Tyr	Ser	His	Thr	Ala	Asn	Ile	Leu
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Pro	Asp	Ile	Glu	Asn	Glu	Asp	Phe	Ile	Lys	Asp	Cys	Val	Arg	Ile
				20					25					30
His	Asn	Lys	Phe	Arg	Ser	Glu	Val	Lys	Pro	Thr	Ala	Ser	Asp	Met
				35					40					45
Leu	Tyr	Met	Thr	Trp	Asp	Pro	Ala	Leu	Ala	Gln	Ile	Ala	Lys	Ala
				50					55					60
Trp	Ala	Ser	Asn	Cys	Gln	Phe	Ser	His	Asn	Thr	Arg	Leu	Lys	Pro
				65					70					75
Pro	His	Lys	Leu	His	Pro	Asn	Phe	Thr	Ser	Leu	Gly	Glu	Asn	Ile
				80					85					90
Trp	Thr	Gly	Ser	Val	Pro	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ile	Thr
				95					100					105
Asn	Trp	Tyr	Asp	Glu	Ile	Gln	Asp	Tyr	Asn	Phe	Lys	Thr	Arg	Ile
				110					115					120
Cys	Lys	Lys	Val	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	Asp
				125					130					135
Ser	Tyr	Lys	Val	Gly	Cys	Ala	Val	Gln	Phe	Cys	Pro	Lys	Val	Ser
				140					145					150
Gly	Phe	Asp	Ala	Leu	Ser	Asn	Gly	Ala	His	Phe	Ile	Cys	Asn	Tyr
				155					160					165
Gly	Pro	Gly	Gly	Asn	Tyr	Pro	Thr	Trp	Pro	Tyr	Lys	Arg	Gly	Ala
				170					175					180
Thr	Cys	Ser	Ala	Cys	Pro	Asn	Asn	Asp	Lys	Cys	Leu	Asp	Asn	Leu
				185					190					195
Cys	Val	Asn	Asp	Ser	Glu	Thr	Lys	Ser	Asn	Val	Thr	Thr	Met	Leu
				200					205					210
Tyr	Ile	Arg	Leu	Ala	His	Ile	Ser	Thr						
				215										